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**1** [The evolution of virtualization](#)
[Kirk L. Kroeker](#)

March 2009

**Communications of the ACM**, Volume 52 Issue 3

**Publisher:** ACM [Request Permissions](#)

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Virtualization is moving out of the data center and making inroads with

**2** [Xen and the art of virtualization](#)
[Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex H.](#)  
 December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium**
**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (168.76 KB) [Additional Information](#): [full citation](#)
**Bibliometrics:** Downloads (6 Weeks): 238, Downloads (12 Months): 2075, [Download History](#)

Numerous systems have been designed which use virtualization to subdivide specialized hardware, or cannot support commodity operating systems.

**Keywords:** hypervisors, paravirtualization, virtual machine monitors

Also published in:






 December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

**3** [A feather-weight virtual machine for windows applications](#)
[Yang Yu, Fanglu Guo, Susanta Nanda, Lap-chung Lam, Tzi-cker Chiueh](#)  
 June 2006 **VEE '06: Proceedings of the 2nd international conference on**
**Publisher:** ACM [Request Permissions](#)

 Full text available: [Pdf](#) (192.18 KB) [Additional Information](#): [full citation](#)
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Many fault-tolerant and intrusion-tolerant systems require the ability to leave permanent damages. Virtual machine technology meets this requirement.

**Keywords:** copy on write, mobile code security, namespace virtualization




-  [Information flow control for standard OS abstractions](#)  
 Maxwell Krohn, Alexander Yip, Micah Brodsky, Natan Cliffer, M. Frans Kaas  
 October 2007 **SOSP '07**: Proceedings of twenty-first ACM SIGOPS symposium  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Flv (29:43 MIN),  Mp3 (12.48 MB),  Pdf (321.86 KB) [Additional Information](#)  
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Decentralized Information Flow Control (DIFC) is an approach to security between the pieces of an application and the outside world. As applied to

**Keywords:** DIFC, decentralized information flow control, endpoints, references



Also published in:

October 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 6

- 5 [Confining windows inter-process communications for OS-level virtualization](#)  
 Zhiyong Shan, Yang Yu, Tzi-cker Chiueh  
 March 2009 **VDTS '09**: Proceedings of the 1st EuroSys Workshop on Virtualization  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available:  Pdf (320.75 KB) [Additional Information](#): [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 103, Downloads (All Time): 1,000

As OS-level virtualization technology usually imposes little overhead on choice for building intrusion/fault tolerant applications that require reduced

**Keywords:** IPC confinement, dependable system, virtual machine



- 6 [Container-based operating system virtualization: a scalable, high-performance approach](#)  
 Stephen Soltesz, Herbert Pötzl, Marc E. Fluczynski, Andy Bavier, Larry Peterson  
 June 2007 **EuroSys '07**: Proceedings of the 2nd ACM SIGOPS/EuroSys conference on European system level conferences  
**Publisher:** ACM  
 Full text available:  Pdf (863.93 KB) [Additional Information](#): [full citation](#)  
**Bibliometrics:** Downloads (6 Weeks): 42, Downloads (12 Months): 439, Downloads (All Time): 1,000


Hypervisors, popularized by Xen and VMware, are quickly becoming common there are scenarios that require system virtualization with high degrees of

**Keywords:** Linux-VServer, Xen, alternative, container, hypervisor, open

Also published in:

June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

- 7 [HyperSpector: virtual distributed monitoring environments for secure systems](#)  
 Kenichi Kourai, Shigeru Chiba  
 June 2005 **VEE '05**: Proceedings of the 1st ACM/USENIX international conference on Virtual Execution Environments  
**Publisher:** ACM  [Request Permissions](#)  
 Full text available: [Additional Information](#):

 Pdf (262.72 KB)

[full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 100, Downloads

In this paper, a virtual distributed monitoring environment called *Hyper* distributed computer systems. While multiple intrusion detection system

**Keywords:** distributed IDS, inter-VM monitoring, virtual machine, virtu

## 8 [Strategic decisions on technology selections for facilitating a network ownership theories](#)



[Kimfong Lei, Phillip T. Rawles](#)

October 2003

**CITC4 '03:** Proceedings of the 4th conference on Informati

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (407.50 KB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 126, Downloads

This paper addresses the selection of technologies that provide each student machine. The authors investigated different combinations of enabling te

**Keywords:** VMware, course development, curriculum, end-user computer IT, networking, operating systems, systems software

## 9 [Network virtualization: a view from the bottom](#)



[Jorge Carapinha, Javier Jiménez](#)

August 2009

**VISA '09:** Proceedings of the 1st ACM workshop on Virtuali

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (741.80 KB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 91, Downloads (12 Months): 344, Downloads

The interest in network virtualization has been growing steadily among virtualization opens up new possibilities for the evolution path to the Fu

**Keywords:** network virtualization, resource management

## 10 [Virtual radio: a framework for configurable radio networks](#)

[Joachim Sachs, Stephan Baucke](#)

November 2008

**WICON '08:** Proceedings of the 4th Annual International C

**Publisher:** ICST (Institute for Computer Sciences, Social-Informatics and Telecom


Full text available:  Pdf (510.59 KB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 44, Downloads

Network virtualization has recently been proposed for the development principle for a Future Internet. In this paper we describe the background

**Keywords:** configurable radio networks, future internet, network virtual

-  [DaVinci: dynamically adaptive virtual networks for a customized inter](#)  
[Jiayue He, Rui Zhang-Shen, Ying Li, Cheng-Yen Lee, Jennifer Rexford, Mun](#)  
 December 2008 **CoNEXT '08: Proceedings of the 2008 ACM CoNEXT Confer**

**Publisher:** ACM  [Request Permissions](#)


Full text available:  [Pdf \(270.30 KB\)](#)

[Additional Information: full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 75, Downlo

Running multiple virtual networks, customized for different performance over a shared substrate. Despite being simple, a static division of resou

## 12 Virtual private caches

-  [Kyle J. Nesbit, James Laudon, James E. Smith](#)  
 June 2007 **ISCA '07: Proceedings of the 34th annual international sym**

**Publisher:** ACM

Full text available:  [Pdf \(452.49 KB\)](#)

[Additional Information: full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 157, Downl


Virtual Private Machines (VPM) provide a framework for Quality of Servi microarchitecture mechanisms that allow shares of hardware resources

**Keywords:** chip multiprocessor, performance isolation, quality of servic



Also published in:

June 2007 **SIGARCH Computer Architecture News** Volume 35 Issue 2

## 13 Communications of the ACM: Volume 52 Issue 3


-  March 2009 **Communications of the ACM**

**Publisher:** ACM

Full text available:  [Digital Edition](#) ,  [Pdf \(7.04 MB\)](#) [Additional Information: full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 299, Downloads (12 Months): 2496, Dov

## 14 Towards automated provisioning of secure virtualized networks

-  [Serdar Cabuk, Chris I. Dalton, HariGovind Ramasamy, Matthias Schunter](#)  
 October 2007 **CCS '07: Proceedings of the 14th ACM conference on Comp**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf \(325.55 KB\)](#)


[Additional Information: full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 228, Downl

We describe a secure network virtualization framework that helps realiz enhanced variant of virtualized network zones. The framework allows gr

**Keywords:** automated security provisioning, network security, network


## 15 VPFS: building a virtual private file system with a small trusted comp

-  [Carsten Weinhold, Hermann Härtig](#)  
 April 2008 **Eurosys '08: Proceedings of the 3rd ACM SIGOPS/ EuroSys**

**Publisher:** ACM

Full text available:

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 Pdf (386.31 KB)

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**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 141, Downloads

In this paper we present the lessons we learned when developing VPFS, amount of trusted storage and an untrusted legacy file system residing

**Keywords:** legacy reuse, secure file system, virtualization

Also published in:

April 2008 **SIGOPS Operating Systems Review** Volume 42 Issue 4


#### 16 [March of the \(virtual\) machines: past, present, and future milestones](#)

[Alessio Gaspar](#), [Sarah Langevin](#), [William D. Armitage](#), [Matt Rideout](#)

May 2008

**Journal of Computing Sciences in Colleges**, Volume 23 Iss

**Publisher:** Consortium for Computing Sciences in Colleges


Full text available:  Pdf (50.19 KB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 108, Downloads

Many courses in the computing curricula can benefit from hands-on pedagogy (learning) in the form of laboratory components associated with the lecture

#### 17 [Laboratory experiments for network security instruction](#)

 [José Carlos Brustoloni](#)

December 2006 **Journal on Educational Resources in Computing (JER)**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (131.27 KB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 27, Downloads (12 Months): 289, Downloads

We describe a sequence of five experiments on network security that can be performed by a programmer, and system administrator. Unlike experiments described in

**Keywords:** Certificate, IPsec, SSH, SSL, VPN, certifying authority, course fingerprinting, firewall, man-in-the-middle, password, port scanning, security

#### 18 [Towards high performance virtual routers on commodity hardware](#)

 [Norbert Egi](#), [Adam Greenhalgh](#), [Mark Handley](#), [Mickael Hoerd](#), [Felipe Huici](#)

December 2008 **CoNEXT '08: Proceedings of the 2008 ACM CoNEXT Conference**

**Publisher:** ACM  [Request Permissions](#)


Full text available:  Pdf (195.68 KB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 80, Downloads

Modern commodity hardware architectures, with their multiple multi-core processors and tremendous power. In this paper, we study performance limitations when

#### 19 [On the design of scalable, self-configuring virtual networks](#)

 [David Isaac Wolinsky](#), [Yonggang Liu](#), [Pierre St. Juste](#), [Girish Venkatasubramanian](#)

November 2009 **SC '09: Proceedings of the Conference on High Performance Computing**

**Publisher:** ACM  [Request Permissions](#)

Full text available:  Pdf (400.61 KB)

Additional Information: [full citati](#)

**Bibliometrics:** Downloads (6 Weeks): 41, Downloads (12 Months): 136, Downl

Virtual networks (VNs) provide methods that simplify resource manager applications in distributed systems, by enabling global addressability of

## 20 A cost-oriented approach for infrastructural design



Danilo Ardagna, Chiara Francalanci, Marco Trubian

March 2004

**SAC '04:** Proceedings of the 2004 ACM symposium on Appl

**Publisher:** ACM  [Request Permissions](#)

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Additional Information: [full citati](#)




**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 51, Downloa

The selection of a cost-minimizing combination of hardware and network complex design problem with multiple degrees of freedom. Decisions m

**Keywords:** cost minimization, tabu-search

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